

**Fig. 1A**

SUS1	SEQ ID NO: 2	ENGIL <u>RR</u> KWISRFDVW	native
SUS2	SEQ ID NO: 3	ENGIV <u>RR</u> KWISRFEVW	native
SS2	SEQ ID NO: 10	GIV <u>RR</u> KWISRFEVWPYL <b>KK</b>	active
SS11	SEQ ID NO: 11	ILRVPFRTENGIV <u>RR</u> K (NH <sub>2</sub> )	inactive
SS12	SEQ ID NO: 12	GIV <u>RR</u> KWISRFEVWPYL (NH <sub>2</sub> )	active
SS15	SEQ ID NO: 13	GIV <u>RR</u> K <b>A</b> ISRFEV <b>A</b> PYL (NH <sub>2</sub> )	less active
SS16	SEQ ID NO: 14	SRFEVWPYL (NH <sub>2</sub> )	less active
SP3	SEQ ID NO: 18	<b>RR</b> ISSVE <b>DKK</b> (NH <sub>2</sub> )	inactive
NR11	SEQ ID NO: 15	GPTL <u>RR</u> TASTAFMNTTS <b>KK</b>	inactive
SP26	SEQ ID NO: 16	GRM <u>RR</u> IATVEM <b>KK</b>	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EHGIVTNWDDMEKIWHHTFY	consensus

Double basic cluster: black box; e.g. **KK**

Possible region of specificity: underlined or boxed

Substitutions: bold